



**United States Environmental Protection Agency  
Region 9 Laboratory**

1337 S. 46th Street Building 201  
Richmond, CA 94804

**Date:** 7/14/2017

**Subject:** Analytical Testing Results - Project R17E01  
SDG: 17184B

**From:** Peter Husby, Director  
EPA Region 9 Laboratory  
EMD-3-1

**To:** Janice Chan  
Enforcement Division, Air Section  
ENF-2-1

Attached are the results from the analysis of samples from the **Catalytic Converter Analysis FY2017** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Peter Husby, the Lab Project Manager at (510)412-2300.

Electronic CC: Matt Salazar, ENF-2-1  
Andrew Zelling, Nathan Dancher, ENF-2-1  
Elfego Felix, Kingsley Adeduro, ENF-2-1

**Analyses included in this report:**

Platinum Group Metals by XRF



United States Environmental Protection Agency  
**Region 9 Laboratory**

1337 S. 46th Street, Building 201, Richmond, CA 94804  
Phone:(510) 412-2300 Fax:(510) 412-2302

**Project Manager:** Janice Chan

**Project Number:** R17E01

**Project:** Catalytic Converter Analysis FY2017

**Enforcement Division, Air Section**

**75 Hawthorne Street**

**San Francisco CA, 94105**

**SDG:** 17184B

**Reported:** 07/14/17 10:40

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
LWGMDYZ87HA000306	1707002-01	Solid	06/30/17 00:00	07/03/17 10:10



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## Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
<b>Lab ID: 1707002-01</b>							<b>Solid - Sampled: 06/30/17 00:00</b>		
<b>Sample ID: LWGMDYZ87HA000306</b>							<b>XRF Analysis of Platinum Group Metals</b>		
Platinum		1,200		160	mg/kg	B17G012	07/11/17	07/13/17	XRF
Palladium		8,400		40	"	"	"	"	XRF
Rhodium		1,500		40	"	"	"	"	XRF

## Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B17G012 - - General Biology - Platinum Group Metals by XRF						Prepared: 07/11/17 Analyzed: 07/13/17				
Blank (B17G012-BLK1)						XRF Analysis of Platinum Group Metals - Quality Control				
Platinum	ND	U		160 mg/kg						
Palladium	ND	U		40 "						
Rhodium	ND	U		40 "						
Blank (B17G012-BLK2)										
Platinum	ND	U		160 mg/kg						
Palladium	ND	U		40 "						
Rhodium	ND	U		40 "						
Reference (B17G012-SRM1)										
Platinum	760			mg/kg	697		109	85-115		
Palladium	290			"	326		89	85-115		
Rhodium	51			"	51.2		100	85-115		
Reference (B17G012-SRM2)										
Platinum	1,200			mg/kg	1130		103	85-115		
Palladium	230			"	233		97	85-115		
Rhodium	140			"	135		101	85-115		
Reference (B17G012-SRM3)										
Platinum	1,700			mg/kg	1780		97	85-115		
Palladium	290			"	279		105	85-115		
Rhodium	340			"	338		101	85-115		
Reference (B17G012-SRM4)										
Platinum	750			mg/kg	697		108	85-115		
Palladium	290			"	326		89	85-115		
Rhodium	51			"	51.2		100	85-115		
Reference (B17G012-SRM5)										
Platinum	1,200			mg/kg	1130		103	85-115		
Palladium	230			"	233		100	85-115		
Rhodium	150			"	135		108	85-115		
Reference (B17G012-SRM6)										
Platinum	1,800			mg/kg	1780		100	85-115		
Palladium	280			"	279		101	85-115		
Rhodium	350			"	338		103	85-115		



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**Qualifiers and Comments**

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

VIN Number	Engine Family	SAMPLE ID	Catalyst Type	Substrate Len.	Substrate Dia.	Substrate Vol.	Substrate Area	Cells	CPSI
				(cm)	(cm)	(cm <sup>3</sup> )	(in <sup>2</sup> )	#	
LWGMDYZ87HA000306	HHSNX.686A15	1707002-01	Honeycomb	9.00	4.81	163.7	2.82	599	212

VIN Number	Engine Family	SAMPLE ID	Pt	Pd	Rh	Ratio	Active Material
			mg/Kg	mg/Kg	mg/Kg	Pt:Pd:Rh	Loading (g/ft3)*
LWGMDYZ87HA000306	HHSNX.686A15	1707002-01	1234	8387	1484	1:7:1	75



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
ENFORCEMENT AND  
COMPLIANCE ASSURANCE

I, Nathan Dancher of US EPA hereby certify I  
Name Business/Agency

removed the following item; Exhaust System. I marked the item with:

VIN or ESN: LW6MDY287HA000306

The item is from Entry No.: 9AR-0277347 Date Removed: 6/30/17

From a: 2017 Hison Challenger 700  
Year Make Model

Allegedly covered by USEPA Engine Family: H HSNX.686A15  
Engine Family

I further certify on 6/30/17, I secured the described item prior to shipping it.

CHAIN OF CUSTODY				
Released By:		Received By:		Remarks
Name	Date and Time	Name	Date and Time	
<u>Day</u>	<u>6/30/17 15:30</u>	<u>Nathan Dancher</u>	<u>6/30/17 15:30</u>	
Organization <u>USCBP</u>	Seal Intact? Y,N, Comment	Organization <u>US EPA</u>	Seal Intact? Y,N, Comment	
Signature <u>[Signature]</u>		Signature <u>[Signature]</u>		
Name <u>Nathan Dancher</u>	<u>6/30/17 15:38</u>	Name <u>JUNN MASONGSONG</u>	<u>7/3/17 1010</u>	
Organization <u>USEPA</u>	Seal Intact? Y,N, Comment	Organization <u>RA LAB</u>	Seal Intact? Y,N, Comment	
Signature <u>[Signature]</u>		Signature <u>[Signature]</u>		
Name		Name		
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment	
Signature		Signature		
Name		Name		
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment	
Signature		Signature		
Name		Name		
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment	
Signature		Signature		

Version: July 2015

Enforcement Confidential – Do not release under FOIA

## Sample Receipt Checklist

Project No: 217E01 Work Order No(s): 1707002 Date: 7/3/17 by JDM

### CUSTODY SEALS Intact

Check if applies: ☐ External Seals ☐ Internal Seals ☐ Hand Delivered

☐ Yes ☐ No ☒ N/A- None

### TEMPERATURE 23 °C Within Acceptable Range

Check if applies:

☐ Provided Temp Blank ☐ Between 6°C to 10°C ☐ Still cooling (sampled today & iced)  
☐ Previously Frozen ☐ Insufficient/Melted Ice ☐ Delivery Delay

☐ Yes ☐ No ☒ Ambient OK

### SAMPLE CONTAINERS Intact

If not intact, was volume recoverable for analysis?

Check if applies: ☐ Bottle/Jar/Vial broken ☐ Cap broken or loose ☐ Other \_\_\_\_\_

☒ Yes ☐ No  
☐ Yes ☐ No ☒ N/A

### CHAIN OF CUSTODY Received

COC complete and consistent with labels

Check if applies: ☐ Not relinquished ☐ Inconsistency resolved ☐ Follow-up needed (see comments)

TAT and analyses match scheduling

Check if applies: ☐ Preliminary Results ☐ Rush Request ☐ 7-day TAT

Within hold times ☐ Expires today

All shipping and sample containers accounted for

☒ Yes ☐ No  
☒ Yes ☐ No ☐ N/A  
☒ Yes ☐ No ☐ N/A

☒ Yes ☐ No ☐ N/A  
☒ Yes ☐ No ☐ N/A

### PRESERVATION / FILTRATION

Check if applies: ☐ Sample Receiving to preserve  
☐ Analyst to filter and/or preserve

Preserved and/or filtered samples correctly identified

Preserved samples (non-VOA vials) measured at correct pH

Preservation/measured pH \_\_\_\_\_

☒ N/A No chem. pres./filtra.

☐ Yes ☐ No ☒ N/A  
☐ Yes ☐ No ☒ N/A

### Sample Receiving Preservation and/or pH Adjustments\*

Sample ID	Initial pH	Pres.	Date/time Pres. added	Adjusted pH	pH after 16-hrs (metals)	Date/time of pH recheck	Rechecked by

\*(continue on back, if needed)

### FOLLOW-UP / COMMENTS

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